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(54) Title: BARLEY FOR PRODUCTION OF FLAVOR-STABLE BEVERAGE

(57) Abstract: According to the invention, there is provided null-LOX-I barley and plant products produced thereof, such as malt manufactured by using barley kernels defective in synthesis of the fatty acid-converting enzyme lipoxigenase-1. Said enzyme accounts for the principal activity related to conversion of linoleic acid into 9-hydroperoxy octadecadienoic acid, a lipoxigenase pathway metabolite, which-through further enzymatic or spontaneous reactions-may lead to the appearance of trans-2-nonenal. The invention enables brewers to produce a beer devoid of detectable trans-2-nonenal-specific off flavors, even after prolonged storage of the beverage.

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